ELSEVIER

Animal Feed Science and Technology
81 (1999) 345–347

ANIMAL FEED SCIENCE AND TECHNOLOGY

www.elsevier.com/locate/anifeedsci

Contents of *Animal Feed Science and Technology*, Volume 81

VOL. 81 NOS. 1–2 **15 SEPTEMBER 1999**

Morphological fractions of maize stover harvested at different stages of grain maturity and nutritive value of different fractions of the stover
A. Tolera (Awassa, Ethiopia and Ås, Norway) and F. Sundstøl (Ås, Norway) 1

Fermentation kinetics of stems of sorghum and millet genotypes
E. Zerbini, A. Sharma (Patancheru, India) and H.F.W. Rattunde (Bamako, Mali) 17

Stability of bacitracin methylene disalicylate and chlortetracyline in combination in a pelleted pig feed
S.E. Watkins, P.W. Waldroup (Fayetteville, AR, USA), J.P. Peters and A.D. Desai (Fort Lee, NJ, USA) 35

Comparison of the nutritive value for laying hens of diets containing azolla (Azolla pinnata) based on formulation using digestible protein and digestible amino acid versus total protein and total amino acid
A. Khatun (Dinajpur, Bangladesh), M.A. Ali and J.G. Dingle (Lawes, Australia) 43

The effects of level of fish oil inclusion in the diet on rumen digestion and fermentation parameters in cattle offered grass silage based diets
T.W.J. Keady (Hillsborough, UK) and C.S. Mayne (Hillsborough, UK and Belfast, UK). . . . 57

Effects of ruminal inoculations with tannin-tolerant bacteria on fibre and nitrogen digestibility of lambs fed a high condensed tannin diet
D.O. Molina, A.N. Pell and D.E. Hogue (Ithaca, NY, USA) 69

Chemical changes and influences of rapeseed antinutritional factors on lamb physiology and performance. 1. Animal performance and thyroid histology
G. Derycke (Namur, Belgium), N. Mabon (Gembloux, Belgium), S.N.M. Mandiki, J.L. Bister (Namur, Belgium), J.-P. Wathelet, M. Marlier (Gembloux, Belgium) and R. Paquay (Namur, Belgium) 81

Chemical changes and influences of rapeseed antinutritional factors on lamb physiology and performance. 2. Plasma substances and activity of the thyroid
S.N.M. Mandiki (Namur, Belgium), N. Mabon (Gembloux, Belgium), G. Derycke, J.L. Bister (Namur, Belgium), J.-P. Wathelet (Gembloux, Belgium), R. Paquay (Namur, Belgium) and M. Marlier (Gembloux, Belgium) 93

Effect of diets with different digestible energy content on the performance of rabbit does
J.J. Pascual (Orihuela, Spain), C. Tolosa, C. Cervera, E. Blas and J. Fernández-Carmona (Valencia, Spain). 105

The basis of indigenous knowledge of tree fodder quality and its implications for improving the use of tree fodder in developing countries
P.J. Thorne (Kent, UK), D.B. Subba (Kathmandu, Nepal), D.H. Walker (Aitkenvale, Australia), B. Thapa (Kathmandu, Nepal), C.D. Wood (Kent, UK) and F.L. Sinclair (Gwynedd, UK). . . 119

Effect of different levels of berseem (Trifolium alexdrinum) supplementation of wheat straw on some physical factors regulating intake and digestion
A. Das (Todong, India) and G.P. Singh (Bikaner, India) 133

Short communications

A comparison of the predictions of digestible energy content of compound feeds for pigs by chemical or in vitro analysis
M. Spanghero and L.A. Volpelli (Udine, Italy) 151

Fat digestion and faecal bile acid excretion in veal calves fed milk replacers containing either coconut fat or tallow
C. Xu, T. Wensing and A.C. Beynen (Utrecht, The Netherlands) 161

A comparison of digestibility of some concentrate feed ingredients in cattle and sheep
F.P. O'Mara, J.E. Coyle (Dublin, Ireland), M.J. Drennan (Dunsany, Ireland), P. Young and P.J. Caffrey (Dublin, Ireland) 167

Contents continued 176

VOL. 81 NOS. 3–4 **1 OCTOBER 1999**

The effect of minerals and mineral chelators on the formation of phytase-resistant and phytase-susceptible forms of phytic acid in solution and in a slurry of canola meal
D.D. Maenz, C.M. Engele-Schaan, R.W. Newkirk and H.L. Classen (Saskatoon, Canada) . . . 177

Effects of DL-methionine hydroxyanalogue (MHA) or DL-methionine (DL-Met) on N-retention in broiler chickens and pigs
A. Römer and H. Abel (Göttingen, Germany) 193

Hydrothermal and β-glucanase effects on the nutritional and physical properties of starch in normal and waxy hull-less barley
N.O. Ankrah (Pullman, WA, USA), G.L. Campbell, R.T. Tyler, B.G. Rossnagel and S.R.T. Sokhansanj (Saskatoon, Canada) 205

Rumen and blood variables in steers fed grass silage or whole-crop fodder beet silage
A.P. Moloney and P. O'Kiely (Dunsany, Ireland) 221

The effect of a lactic acid bacterial inoculant with enzymes on the fermentation dynamics, intake and digestibility of Digitaria eriantha silage
R. Meeske, H.M. Basson (Irene, South Africa) and C.W. Cruywagen (Stellenbosch, South Africa) 237

Use of lentil screenings in the diets of early weaned lambs and ewes in the second trimester of pregnancy
K. Stanford, G.L. Wallins, B.M. Lees and H.-H. Mündel (Lethbridge, Canada) 249

Effects of grass clover-pellets and whole plant maize-pellets on the feed intake and performance of dairy cows
W. Knaus (Vienna, Austria), K. Luger (Wieselburg, Austria), W. Zollitsch, H. Gufler (Vienna, Austria), L. Gruber (Irdning, Austria), C. Murauer and F. Lettner (Vienna, Austria) 265

Estimation of net ruminal protein synthesis from urinary allantoin excretion by bulls given tropical feeds
M.N. Shem (Morogoro, Tanzania), F.D.D. Hovell (Aberdeen, UK) and A.E. Kimambo (Morogoro, Tanzania) 279

Evaluation of date-feed ingredients mixes
I.E.H. Belal, M.S. Al-Jasser, I.A. Mustafa and M.N. Al-Dosari (Al-Hassa, Saudi Arabia) . . . 291

Chemical composition of solar-dried blood meal and its effect on performance of broiler chickens
A. Donkoh, C.C. Atuahene, D.M. Anang and S.K. Ofori (Kumasi, Ghana) 299

Effect of fat coating on rumen degradation and intestinal digestibility of soybean meal
F. Rossi, L. Fiorentini, F. Masoero and G. Piva (Piacenza, Italy) 309
Effect of environmental temperature on performance and on physiological and hormonal parameters of gilts fed at different levels of digestible energy
R.F.M. Oliveira and J.L. Donzele (Viçosa, Brazil) 319
A comparison of in vitro rumen fluid and enzymatic methods to predict digestibility and energy value of grass and alfalfa hay
N. Iantcheva (Stara Zagora, Bulgaria), H. Steingass (Stuttgart, Germany), N. Todorov and D. Pavlov (Stara Zagora, Bulgaria) 333

Contents of *Animal Feed Science and Technology*, Volume 81 345

Contents continued 348